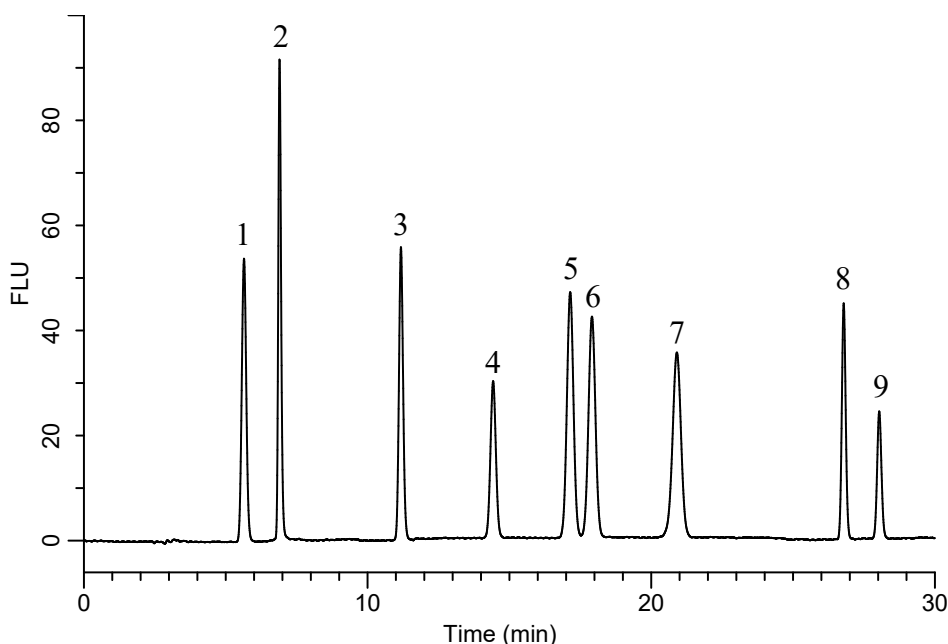


InertSearch™ for LC

Inertsil® Applications

Analysis of Carbamate insecticides – Inertsil ODS-4 (Directed by Post-Column Method with OPA)

Data No. LA918-0894



Conditions

System : GL-7400 HPLC system
Column : Inertsil ODS-4 (5µm, 250 x 4.6 mm I.D.)
Column Cat. No. : 5020-03946
Eluent : A) CH₃OH
B) H₂O
A/B = 35/65 – 2 min – 35/65 – 0.1 min – 53/47
- 18.4 min – 53/47 – 0.1 min – 70/30 – 9.4 min
- 70/30 – 0.1 min – 35/65 – 9.9 min – 35/65, v/v

Flow rate : 1.0 mL/min

Reaction Reagent : OPA reagent*

Col. Temp. : 40 °C

Detection : FL Ex 339 nm Em 455 nm
(GL-7453A FL Detector)

Injection Vol. : 10 µL

Sample : Pesticides

Analyte:

| | |
|-----------------|----------|
| 1. Oxamyl | 1.0 mg/L |
| 2. Methomyl | 1.0 mg/L |
| 3. Aldicarb | 1.0 mg/L |
| 4. Bendiocarb | 1.0 mg/L |
| 5. Carbaryl | 1.0 mg/L |
| 6. Ethiofencarb | 1.0 mg/L |
| 7. Isoprocarb | 1.0 mg/L |
| 8. Fenobucarb | 1.0 mg/L |
| 9. Methiocarb | 1.0 mg/L |

* Dissolve 0.2 g of o-Phthalaldehyde in 2.5 mL of methanol, and add 0.05 mol/L sodium tetraborate aqueous solution to make 250 mL. After sonicating this solution, add 0.5 mL of 2-Mercaptoethanol.